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E' described (*see, e.g.* Sturniolo et al., *Nat Biotechnol* 17(6):555-61, 1999). HLA binding predictions can conveniently be made using an algorithm available via the Internet on the National Institutes of Health World Wide Web site. See also the website of: SYFPEITHI: An Internet Database for MHC Ligands and Peptide Motifs. Methods for determining HLA class II peptides and making substitutions thereto are also known (e.g. Strominger and Wucherpennig (PCT/US96/03182)).

In the Claims

Please amend the claims as follows. Applicants have attached a copy of the marked-up claims on a separate page, with deletions and additions to the text indicated by bracketing and underlining, respectively.

SUB F1)
E-2
1. (Twice Amended) A method of diagnosing a disorder characterized by expression of a human cancer associated antigen precursor coded for by a nucleic acid molecule, comprising:
contacting a biological sample isolated from a subject with an agent that binds under stringent hybridization conditions to the nucleic acid molecule, an expression product thereof, or a fragment of an expression product thereof complexed with an HLA molecule, wherein the nucleic acid molecule is selected from the group consisting of (1) nucleic acid molecules which hybridize under stringent conditions to a molecule consisting of a nucleic acid sequence selected from the group consisting of SEQ ID NOs:3-17 and which code for a cancer associated antigen precursor, (b) nucleic acid molecules that differ from the nucleic acid molecules of (a) in codon sequence due to the degeneracy of the genetic code, and (c) complements of (a) or (b), and
determining the presence or level of interaction between the agent and the nucleic acid molecule or the expression product as a determination of the disorder.

Remarks

Claims 1, 2, 7, 16, 50, 52, 63, 65, 70-72, 78-80, 85, 88, 98, 102, 109, 115 and 117-127 are pending. Applicants have amended the specification to overcome the Examiner's objection by deleting the embedded hyperlinks as requested by the Examiner under MPEP §608.01. Applicants have amended claim 1 to clarify the claim language and to overcome rejections made by the Examiner. Support for the amendment can be found in the specification, for example at